

## QUICK-START GUIDE TO OFF-ROAD FUNCTIONS

### Bat and Ball Gear Levers

The "bat" gear lever is for normal automatic gearbox functions, including a manual gear selection option by pushing to the left.

The "ball" gear lever selects low and high range and engages the centre diff lock.

### High/Low Gear

Low gear ratio is recommended for difficult terrain and provides more engine braking on steep descents. Maximum speed for low range is 70km/h (44mph).

To move between high and low ratio, the Grenadier must be stationary and the transmission in neutral. Select low range by lifting the collar on the ball gear lever and pulling the lever backwards. Selection is sometimes easier if no brake applied.

### Centre Differential Lock

The centre diff lock, available in both low and high ratios, can be activated when the vehicle is stationary or while being driven, by lifting the collar on the ball gear lever and shifting the lever to the lock position.

### Front/Rear Differential Locks (if fitted)

These can only be engaged when in low ratio with the centre diff locked and with vehicle speed below 15km/h (9mph). The rear diff lock must be engaged before the front can be engaged. Both are selected using the control buttons in the overhead panel. To activate, press and hold each button for one full second. The orange light on the button will flash slowly. The vehicle must move within 60 seconds to confirm engagement, the orange light will then turn solid. To deactivate, press and hold the button for one full second. The light will flash again until it has detected that the diff locks have disengaged. There may be a lag.

If the diff locks don't disengage instantly, a difference in wheel speeds will need to be detected. This can be achieved by making tight steering turns. The light will then go out.

### Off-Road Mode

Off-road mode optimises the vehicle setup for non-highway use, including a less intrusive ESC setting, e.g. Parking Distance Control, seatbelt reminders, engine stop-start are disabled and the rear view camera is only available via manual activation.

Off-road mode can be enabled in both low and high ratios. To engage, the vehicle must be running and stationary (transmission can be in Drive, Reverse or Neutral). To activate, press the button for one full second, the orange light on the button will flash, and then confirm with a second press within 15 seconds. The orange light will then turn solid. Press button once for one full second to deactivate. Off-road mode will deactivate automatically at speeds above 75km/h (46mph).

### Wading Mode

Wading mode has all the features of Off-road mode but with additional functions for driving in deep water up to 800mm maximum. It deactivates fans, seat heating, and a speed limiter of 30km/h (18mph) is activated. Activating Wading mode will automatically engage Off-road mode.

Wading mode can only be enabled when the vehicle is in low range with the centre differential locked. To engage, the engine must be running and stationary (transmission in Drive, Reverse or Neutral). To activate, press the button for one full second, the orange light on the button will flash, and then confirm with a second press within 15 seconds. The orange light will then turn solid. Press button once for one full second to deactivate.

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### ESC Off

ESC Off heavily reduces the stability control functions and results in less intervention from electronic systems. This will be of benefit where momentum is required to traverse difficult terrain and will work in low and high ratios. Certain ESC functions are automatically disabled when the centre diff lock is engaged.

ESC OFF is engaged automatically when both front and rear differentials are locked. To engage ESC OFF without differentials locked, the engine must be running and stationary (transmission in Drive, Reverse or Neutral). To activate, press and hold for three full seconds until the orange light on the button comes on. Press button once for one full second to deactivate. ESC Off will deactivate automatically at speeds above 75km/h (46mph).

### Downhill Assist

Downhill Assist allows the Grenadier to descend steep hills using ABS controls without the need for any braking input from the driver. This allows the vehicle to descend at a controlled speed, which can be preset and adjusted by the driver using the cruise control +/- buttons on the steering wheel.

The front and rear diffs must be unlocked for Downhill Assist to engage, and the vehicle must be at speeds of less than 25km/h (15mph) forward or 10km/h (6mph) in reverse. To activate, press the button for one full second until the orange light on the button comes on. Press button for one full second to deactivate. Downhill Assist will deactivate automatically at speeds above 25km/h (16mph).

### Winch Operation (if fitted)

To operate the winches the engine must be running and the vehicle must not be in Park on the transmission selector. Activate the winch using the 500A switch in the overhead panel. The remote control must be on, with a green light displayed. To switch winch remote on, press and hold the On button for three secs. The rope can be wound in or out using the buttons on the remote. Manual extraction of the rope can be performed by switching the free spool lever on the winch to the horizontal position. Once rope is at the desired length, return the lever to the vertical position to allow the remote control to function.

### Roof Panel Pre-wired Auxiliary Switches

INT 1-2: Wiring provisions in the left - and right-hand footwell area. Max 10A  
 EXT 1: Under the bonnet, driver's side. Max. 10A.  
 EXT 2: Front right roof outlet. Max. 25A, suggested use LED lightbar.  
 EXT 3: Remaining roof outlets. Max. 25A  
 EXT 4: Front/Rear winch. Max. 500A.  
 EXT 5: Under the bonnet, driver's side. Max. 25A.  
 PWR Switch: To activate all 12v power outlets and Auxiliary Charge Points (if equipped) when engine is switched off. Take care not to fully discharge the battery.

### Exterior Light Delay

Headlights remain temporarily illuminated when vehicle is locked to improve visibility around the vehicle. Duration of delay can be adjusted in the settings menu. Select Settings > Vehicle Functions > Central Locking System